

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPPLICATE  
(Other instructions on re-  
verse side)

Budget Bureau No. 1004-0135  
Expires August 31, 1985

LEASE DESIGNATION AND SERIAL NO.

14-20-603-2022

3. IF INDIAN, ALLOTTEE OR TRIBE NAME

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>	7. UNIT AGREEMENT NAME Navajo
2. NAME OF OPERATOR ARCO Oil and Gas Company, Div. of Atlantic Richfield Company	8. FARM OR LEASE NAME Horseshoe Gallup Unit
3. ADDRESS OF OPERATOR 707-17th Street P.O. Box 5540, Denver, CO 80217	9. WELL NO. 70
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface Unit " B ", 660' FNL & 1980' FEL, Sec. 14	10. FIELD AND POOL, OR WILDCAT Horseshoe Gallup
No API No. Assigned	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 14-31N-17W
14. PERMIT NO.	12. COUNTY OR PARISH San Juan
15. ELEVATIONS (Show whether OP, RT, CR, etc.) 5356' GL	13. STATE N.M.

16.

Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input checked="" type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>
(Other) <input type="checkbox"/>	

SUBSEQUENT REPORT OF:

WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
(Other) <input type="checkbox"/>	

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.) \*

ARCO requests your permission to plug and abandon the subject well.

HSGU Well #70 was originally completed 7-31-59 by the Magnolia Petroleum Co. as a Lower Gallup producer. Production from this well declined to the point where it became uneconomical to operate, and the well was shut-in during March of 1972. At that time, this well was producing approximately 1 BOPD. We do not foresee production from this well becoming profitable again in the future and, therefore, recommend permanent plugging and abandonment.

Attached is a P&A Procedure to plug this well.

RECEIVED

SEP 13 1984

OIL CON. DIV.  
DIST. 3

18. I hereby certify that the foregoing is true and correct

SIGNED Stephen Rose  
S.C. ROSE

TITLE Dist. Production Supervisor DATE August 20, 1984

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

TITLE \_\_\_\_\_

SEP 04 1984

for J. STEVE MCKEN  
M. MILLENBACH  
AREA MANAGER

\*See Instructions on Reverse Side

NMOCC

Horseshoe Gallup Unit Producing Wells  
Plugging and Abandonment Procedure

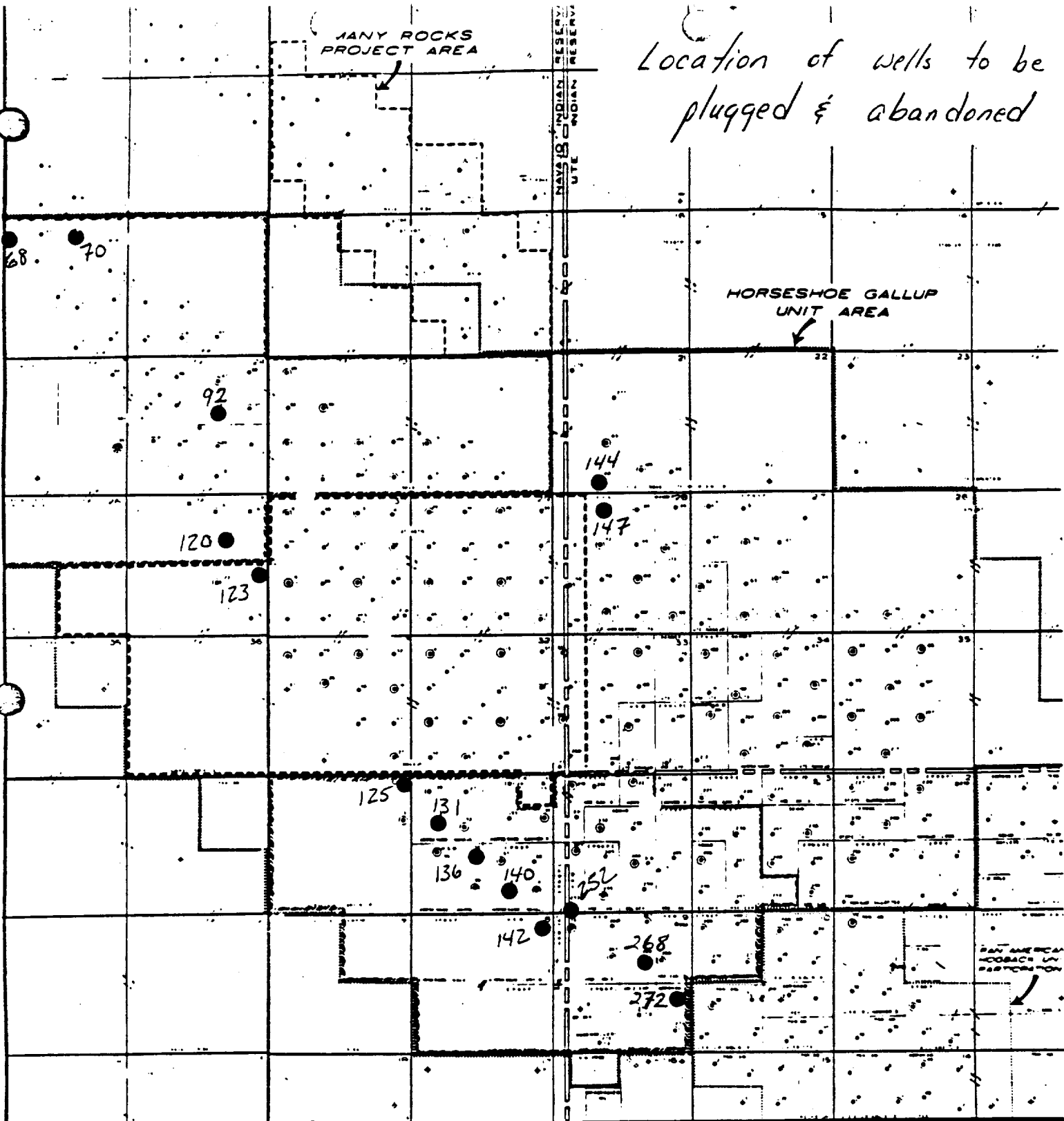
- 1) Move pumping unit off location.
- 2) MIRU. Pull rods and downhole pumping equipment.
- 3) RIH below the bottom perforation w/tbg. open ended. Pump sufficient cement inside casing to cover top perforation by 50'.
- 4) POH w/tbg. GIH w/wireline and perforate casing 150' above top of cement. Number of shots should be sufficient to allow cement squeeze. POH w/wireline. GIH w/tbg. open ended. Squeeze cement to provide 100' plug outside casing. Leave 100' plug inside casing as well. If squeeze is unsuccessful leave a 100' plug inside casing.
- 5) POH w/tbg. GIH w/wireline and perforate casing 50' below surface casing shoe. Number of shots should be sufficient to allow cement squeeze. POH w/wireline.
- 6) RIH w/tbg. open ended and perform bradenhead squeeze through the perforations. Amount of cement should be sufficient for a 100' cement column behind the casing, and for a 100' cement plug inside the casing.
- 7) POH w/tbg. Cut casing one foot below ground level, place a 30" cement plug inside casing. Weld a blind flange to casing, and weld a dry hole marker on blind flange. Fill hole and move off.
- 8) Rehabilitate location and access road using stipulations supplied by the Bureau of Land Management.

NOTE: BOP's will not be needed in most cases due to the very low pressure expected in the Gallup in the abandonment area. (Estimated at less than 250 - 300 psi bottom-hole) If pressure does register in any of these wells, bleed it off, install BOP's if needed, and commence with above procedure.

MANY ROCKS  
PROJECT AREA

Location of wells to be  
plugged & abandoned

HORSESHOE GALLUP  
UNIT AREA



# LEGEND

- LOWER INJECTORS
- UPPER INJECTORS
- DUAL INJECTORS
- PARTICIPATION AREA
- PROPOSED LOCATION
- PROPOSED CONVERSION

MAP II

ARCO Oil and Gas Company

Division of Atlantic Richfield Company  
ROCKY MOUNTAIN DISTRICT  
DENVER, COLORADO

**HORSESHOE - GALLUP UNIT**  
**San Juan County, New Mexico**

DRAFTED BY WEA

DATE 8/30/8

MAP NO

SCALE 1" = 1 Mile

FILE NO